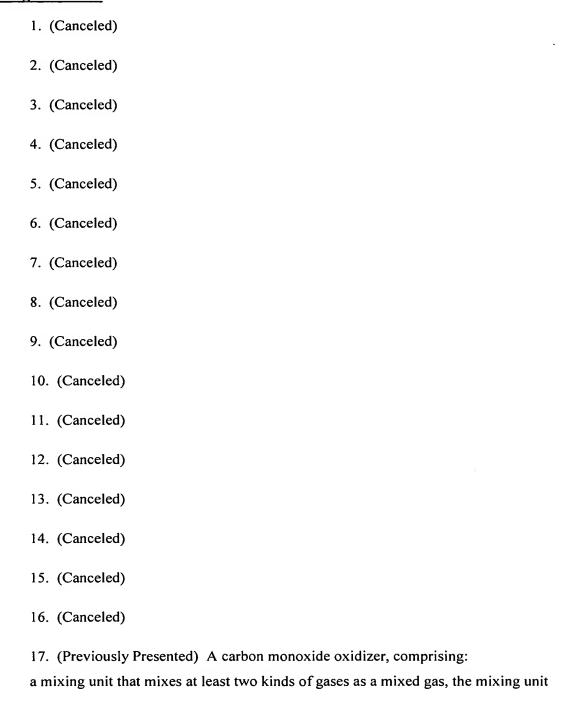
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:



comprising a stacked body of a plurality of plates, the stacked body comprising a rotating passage formed by a through hole formed in each of the plates, to rotate a flow of the mixed gas

wherein the at least two kinds of gases comprise a reformate gas that comprises hydrogen produced by reforming a hydrocarbon fuel, and an oxidant gas, and

wherein the carbon monoxide oxidizer further comprises an oxidant gas supply unit comprising an orifice that reduces a cross-sectional area of a flow of the reformate gas and a blowout hole spurting out the oxidant gas toward the reformate gas passing through the orifice, and the mixing unit further comprises a chamber between the oxidant supply unit and the stacked body, the chamber having a larger cross-sectional area than the cross-sectional area of the orifice.

- 18. (Previously Presented) The carbon monoxide oxidizer as defined in Claim 17, wherein the blowout hole is formed at a position offset from a center line of the orifice so as to cause the oxidant gas to form a rotating flow in the orifice.
- 19. (Previously Presented) The carbon monoxide oxidizer as defined in Claim 18, wherein a rotating direction of the oxidant gas produced by the blowout holes is set to be inverse to the rotating direction of the mixed gas in the stacked body.
- 20. (Previously Presented) The carbon monoxide oxidizer as defined in Claim 17, wherein the mixing unit further comprises a guide arranged inside the chamber that refracts a flow of the mixed gas flowing from the orifice toward the stacked body.
- 21. (Previously Presented) The carbon monoxide oxidizer as defined in Claim 17, wherein each of the through-holes is formed so that a width of the through-hole expands in a radial direction from a center of each of the plates.
- 22. (Previously Presented) The carbon monoxide oxidizer as defined in Claim 17, wherein the oxidant gas supply unit comprises a plurality of blowout holes selectively used based on a flow amount of the reformate gas.

- 23. (Previously Presented) The carbon monoxide oxidizer as defined in Claim 17, wherein each of the plates comprises a passage that circulates a cooling medium.
- 24. (Previously Presented) The carbon monoxide oxidizer as defined in Claim 17, wherein the mixing unit further comprises a porous body arranged in the rotating passage carrying a carbon monoxide preferential oxidation catalyst.
- 25. (Previously Presented) A carbon monoxide oxidizer which removes carbon monoxide from a reformate gas that contains hydrogen produced by reforming a hydrocarbon fuel, comprising:

an orifice that reduces a cross-sectional area of a flow of the reformate gas;
a blowout hole spurting out an oxidant gas toward the reformate gas passing through
the orifice to generate a mixed gas; and

a mixing unit that mixes the reformate gas and the oxidant gas as a mixed gas, the mixing unit comprising:

a chamber disposed downstream of the orifice and having a larger crosssectional area than the cross-sectional area of the orifice; and

a stacked body of a plurality of plates, the stacked body comprising a helical passage connected to the chamber, and formed by a through hole formed in each of the plates, to rotate a flow of the mixed gas; and

a preferential oxidation catalyst unit which promotes a catalytic reaction of the mixed gas supplied through the helical passage to separate carbon monoxide therefrom.